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Abstract :

This document in detail explains the fabrication procedure adopted for fabricating composite parts of the composite rudder for a typical military aircraft. The composite parts include leading edge out of GFRP, SPAR, Edge member, Skins, closing ribs out of CFRP. The problems encountered in autoclave moulding technology in fabricating complex components are in detail explained. The fabrication procedure for making soft tools is also explained. This report also deals with the bonding of the aft section of the rudder using film adhesives and foming adhesives.